

22.11.21 Exercise 13 B

1. Find

a) 35% of $700 = \frac{35}{100} \times 700 = 245$

b) 19% of $600 = \frac{19}{100} \times 600 = 114$

c) 21% of $\text{₹} 1800 = \frac{21}{100} \times 1800 = 378$

d) $16\frac{2}{3}\%$ of $3000 = \frac{50}{100} \times 3000$

$$\frac{50}{3} \times 3000$$

$$\frac{50}{3} \div \frac{1}{100} \times 3000$$

$$= \frac{50}{3} \times \frac{100}{100} \times 3000$$

$$= \text{₹} 500$$

$$\text{or } \frac{50}{3} \times \frac{1}{100} \times \frac{1000}{3000}$$

$$= 50 \times 10 = 2500$$

2. Express

a) 15 paise as percentage of ₹ 1 =

$$\frac{15}{100} \times 100 = 15\%$$

b) 20 as percentage of 25 =

$$\frac{20}{25} \times 100 = 80\%$$

c) 6 cm as percentage of 1 m =

$$\frac{6}{100} \times 100 = 6\%$$

d) 5 cm as percentage of 2 m =

1 m = 100 cm

$$100 \times 2 = 200$$

$$\frac{5}{200} \times 100 = 2.5\%$$

$$= 2\frac{1}{2}\%$$

e) 12 g as percentage of 500g =

$$\frac{12}{500} \times 100 = 2\frac{2}{5}\%$$
$$= \frac{12}{5} = 2.4$$

f) 10 L as percentage of 15 L =

$$\frac{10}{15} \times 100 = \frac{200}{3}\%$$
$$= 66\frac{2}{3}\%$$

g) 350 m as a percentage of 3.5 km
= convert km to m

~~$$\frac{350}{10} \times 100$$~~

$$\frac{350}{3500} \times 100 = 10\%$$